

COC # 69

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
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(503) 906-9200 FAX 906-9210  
(541) 383-9310 FAX 382-7588

## CHAIN OF CUSTODY REPORT

Work Order #: M106025


CLIENT: Bristol		INVOICE TO: Bristol										TURNAROUND REQUEST in Business Days*				
REPORT TO: Anne Kramwetter		P.O. NUMBER: 21090										Organic & Inorganic Analyses				
ADDRESS: Anchorage, Alaska												10 7 5 4 3 2 1 <1				
PHONE: 907 770 0974 FAX: 770 0975		REQUESTED ANALYSES										STD. Petroleum Hydrocarbon Analyses				
PROJECT NAME: Anchorage		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DRO BTX naphthalene</div> <div> </div> </div>										5 4 3 2 1 <1				
PROJECT NUMBER: 21090												STD. OTHER Please Specify				
SAMPLED BY:		*Turnaround Requests less than standard may incur Rush Charges.														
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME											MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID	
1. 01AmA405SL	6/9/01 1900	✓	✓										S	2		
2.																
3.																
4.																
5.																
6.																
7.																
8.																
9.																
10.																
11.																
12.																
13.																
14.																
15.																
RELINQUISHED BY: Charlie Marshall		FIRM: Bristol		DATE: 6/9/01		TIME: 1959		RECEIVED BY: Craig Bradlee		FIRM: NCA		DATE: 6/9/01		TIME: 1959		
RELINQUISHED BY:		FIRM:		DATE:		TIME:		RECEIVED BY:		FIRM:		DATE:		TIME:		
PRINT NAME:		FIRM:		DATE:		TIME:		PRINT NAME:		FIRM:		DATE:		TIME:		
ADDITIONAL REMARKS:														TEMP: 5.7	PAGE 1 OF 1	



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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter  
Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/09/01 19:59. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson  
Environmental Group Leader

Work Orders included in this report:

**M106025**



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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/12/01 13:53

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMA405SL	M106025-01	Soil	06/09/01 18:00	06/09/01 19:59

COC # 69

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

1 of 7



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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/12/01 13:53

**Diesel Hydrocarbons (C10-C25) per AK102**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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**01AMA405SL (M106025-01) Soil**

Sampled: 06/09/01 Received: 06/09/01

**Diesel Range Organics**

**712**

135 mg/kg dry

1

AK 102

06/10/01

06/11/01

0106031

*Surr: 1-Chlorooctadecane*

92.8 %

75-125

*Surr: Triacontane*

94.3 %

75-125

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka  
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**Reported:**  
06/12/01 13:53

## BTEX, MTBE and Naphthalene per EPA Method 8021B

### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA405SL (M106025-01) Soil</b>					Sampled: 06/09/01 Received: 06/09/01				
Benzene	ND	0.0503	mg/kg dry	50	1B BTEX/MTI	06/10/01	06/10/01	0106029	
Toluene	ND	0.201	"	"	"	"	"	"	
Ethylbenzene	ND	0.201	"	"	"	"	"	"	
Xylenes (total)	ND	0.402	"	"	"	"	"	"	
Naphthalene	ND	2.01	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	<i>84.7 %</i>	<i>50-150</i>							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka  
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**Reported:**  
06/12/01 13:53

**Physical Parameters per APHA/ASTM/EPA Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMA405SL (M106025-01) Soil</b>					Sampled: 06/09/01 Received: 06/09/01				
% Solids	88.5	0.0100 % by Weight	1		Gravimetric	06/10/01	06/11/01	0106035	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/12/01 13:53

### Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0106031 - 3545 ASE

##### Blank (0106031-BLK1)

Prepared: 06/10/01 Analyzed: 06/11/01

Diesel Range Organics ND 135 mg/kg wet

Surr: 1-Chlorooctadecane 23.4 " 23.4 100 75-125

Surr: Triacotane 23.5 " 23.4 100 75-125

##### LCS (0106031-BS1)

Prepared: 06/10/01 Analyzed: 06/11/01

Diesel Range Organics 1490 135 mg/kg wet 1250 119 75-125

Surr: 1-Chlorooctadecane 29.5 " 23.4 126 75-125 S-02

Surr: Triacotane 24.3 " 23.4 104 75-125

##### LCS Dup (0106031-BSD1)

Prepared: 06/10/01 Analyzed: 06/11/01

Diesel Range Organics 1410 135 mg/kg wet 1250 113 75-125 5.52 20

Surr: 1-Chlorooctadecane 26.0 " 23.4 111 75-125

Surr: Triacotane 23.9 " 23.4 102 75-125

##### Matrix Spike (0106031-MS1)

Source: M106024-01

Prepared: 06/10/01 Analyzed: 06/11/01

Diesel Range Organics 1860 150 mg/kg dry 1690 ND 110 60-140

Surr: 1-Chlorooctadecane 34.5 " 31.6 109 75-125

Surr: Triacotane 30.9 " 31.6 97.8 75-125

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/12/01 13:53

### BTEX, MTBE and Naphthalene per EPA Method 8021B - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0106029 - MeOH Extraction

##### Blank (0106029-BLK1)

Prepared & Analyzed: 06/10/01

Benzene	ND	0.0250	mg/kg wet
Toluene	ND	0.100	"
Ethylbenzene	ND	0.100	"
Xylenes (total)	ND	0.200	"
Naphthalene	ND	1.00	"

*Surr: 4-BFB* 2.40 " 2.50 96.0 50-150

##### LCS (0106029-BS1)

Prepared & Analyzed: 06/10/01

Benzene	2.52	0.0250	mg/kg wet	2.50	101	69-138
Toluene	2.44	0.100	"	2.50	97.6	53-151
Ethylbenzene	2.59	0.100	"	2.50	104	61-141
Xylenes (total)	7.42	0.200	"	7.50	98.9	62-141
Naphthalene	2.88	1.00	"	2.50	115	65-135

*Surr: 4-BFB* 4.95 " 5.00 99.0 50-150

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/12/01 13:53

### Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

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7 of 7

### Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M106025 FINAL 06 12 01 1353.mdb Default Report (not modified)
0106031-BS1	AK102 (DRO)	1-Chlorooctadecane	S-02
0106031-BS1	AK102 (DRO)	1-Chlorooctadecane	Exceeds upper control limit